

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
8 April 2004 (08.04.2004)

PCT

(10) International Publication Number
WO 2004/029083 A1

(51) International Patent Classification⁷: **C07K 14/415**

VALENTA, Rudolf [AT/AT]; Beethovenstrasse 18,
A-2604 Theresienfeld (AT).

(21) International Application Number:

PCT/EP2003/010701

(74) Agents: **KELLER, Günter** et al.; Lederer & Keller,
Prinzregentenstr. 16, 80538 Munich (DE).

(22) International Filing Date:

25 September 2003 (25.09.2003)

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,
KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK,
MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT,
RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR,
TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

02021837.6 27 September 2002 (27.09.2002) EP

(71) Applicant (*for all designated States except US*): **BIOMAY
PRODUKTIONS- UND HANDELS-AKTIENGE-
SELLSCHAFT** [AT/AT]; Dr. Bohr-Gasse 7b, A-1030
Wien (AT).

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*):
WESTRITSCHNIG, Kerstin [AT/AT]; Gentzgasse
92-94/2/20, A-1180 Wien (AT). **FOCKE, Margarete**
[AT/AT]; Utendorfgasse 22, A-1140 Wien (AT).
TWARDOSZ, Anna [AT/AT]; Trostgasse 11/2, A-2500
Baden (AT). **VALENT, Peter** [AT/AT]; Schulgasse
7/1/8, A-1180 Wien (AT). **VERDINO, Petra** [AT/AT];
Grillparzerstr. 23, A-8010 Graz (AT). **KELLER, Walter**
[AT/AT]; Rötzerstr. 8, A-8111 Judendorf (AT). **KRAFT,
Dietrich** [AT/AT]; Rebenweg 1/18/1, A-1170 Wien (AT).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: **HYPOALLERGENIC ALLERGY VACCINES BASED ON THE TIMOTHY GRASS POLLEN ALLERGEN PHL P 7**

(57) Abstract: The present invention pertains to polypeptides derived from the timothy grass pollen allergen Phl p 7. The polypep-
tides display reduced allergenic activity and are useful as allergy vaccines for treatment of sensitized allergic patients and for pro-
phylactic vaccination.



WO 2004/029083 A1